

Listing of the Claims:

Claims 1-107 were canceled previously.

Please cancel claims 108-117, and add new claims 118-123.

118. (New) An isolated polypeptide of the amino acid sequence Lys Leu Phe Cys Asn Val Asn Cys Val Cys Asn Phe Ala Ser Arg Asn Asp Tyr (SEQ ID NO:41), wherein said polypeptide is has the ability to of inhibit angiogenic activity or the ability to inhibit protein synthesis in endothelial cells.

119. (New) An isolated polypeptide of the amino acid sequence Thr Met Pro Phe Leu Phe Cys Asn Val Asn Asp Val Cys Asn Phe Ala Ser Arg Asn Asp Tyr Ser Tyr Trp Leu (SEQ ID NO:37), wherein said polypeptide is has the ability to of inhibit angiogenic activity or the ability to inhibit protein synthesis in endothelial cells.

120. (New) The isolated polypeptide of claim 119, in which the first Leu residue has been replaced with Met, the has first Val residue has been replaced with Ile, and the Asp residue has been replaced with Asn, such that the peptide has the amino acid sequence Thr Met Pro Phe Met Phe Cys Asn Ile Asn Asn Val Cys Asn Phe Ala Ser Arg Asn Asp Tyr Ser Tyr Trp Leu (SEQ ID NO:38).

121. (New) An isolated polypeptide of the amino acid sequence Lys Gln Arg Phe Thr Thr Met Pro Phe Leu Phe Cys Asn Val Asn Asp Val Cys Asn Phe Ala Ser Arg Asn Asp Tyr Ser (SEQ ID NO:39), wherein said polypeptide is has the ability to of inhibit angiogenic activity or the ability to inhibit protein synthesis in endothelial cells.

122. (New) The isolated polypeptide of claim 121, in which the Cys residues have been replaced with Ser residues such that the polypeptide has the sequence Lys Gln Arg Phe Thr Thr Met Pro Phe Leu Phe Ser Asn Val Asn Asp Val Ser Asn Phe Ala Ser Arg Asn Asp Tyr Ser (SEQ ID NO:40).

123. (New) The isolated polypeptide of claim 121, in which the Cys residues have been replaced with Asp residues such that the polypeptide has the sequence Lys Gln Arg Phe Thr Thr Met Pro Phe Leu Phe Asp Asn Val Asn Asp Val Asp Asn Phe Ala Ser Arg Asn Asp Tyr Ser (SEQ ID NO:42).

124. (New) The isolated polypeptide of claim 119, wherein said polypeptide is capable of inhibiting tumor growth.

125. (New) An isolated, mutated Tumstatin polypeptide of SEQ ID NO:10 comprising at least one of the following mutations:

(a) wherein the Leu at position 77, Val and position 81 and Asp at position 83 have been substituted for Met, Ile and Asn, respectively;

(b) wherein the Leu at position 68 has been substituted for Lys;

(c) wherein the Leu at position 68, Cys at positions 79 and 85 have been substituted for Lys, Ser and Ser, respectively;

(d) wherein Phe at position 76 and Asp at position 83 have been substituted for Lys and Cys, respectively;

(e) wherein Leu at position 68 and Cys at positions 79 and 85 have been substituted for Asp and Asp, respectively; and

wherein said mutated polypeptide has the ability to inhibit angiogenic activity or the ability to inhibit protein synthesis in endothelial cells.

126. (New) An isolated Tumstatin polypeptide of SEQ ID NO:10 having the amino acid sequence of SEQ ID NOs:37-42, wherein said mutated polypeptide has the ability to inhibit angiogenic activity or the ability to inhibit protein synthesis in endothelial cells.